DIME Dynamic Documentation

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May 11, 2017





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- LATEX allows us to create a document once and every time a do-file is run, the tables are automatically updated in our LATEX document.

- Currently, a lot of us, export tables from Stata and then copy paste the tables on to Excel and then to Word or something similar.
- LATEX allows us to create a document once and every time a do-file is run, the tables are automatically updated in our LATEX document.
- ► This saves us a lot of time in the long run even though the learning curve for LATEX is a bit complicated compared to MS Word.

Standardizes formatting across similar topics(headers, sub-headers, subsubheaders).



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- Standardizes formatting across similar topics(headers, sub-headers, subsubheaders).
- Generates Table of Contents, list of Figures, list of tables automatically.
- Open source and standard across any version/editor of LaTeX, ShareLaTeX, etc. (not the same with Word i.e. formatting gets messed up between different version of Word).

And....

▶ Documents can have comments as well. So you can write notes to yourself, future ideas which only you can read!



What is LATEX?

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- ► LaTeX is a typesetting software which uses predefined formatting rules according to various settings you use(document class, page type, etc).
- ▶ Very flexible as every setting can be defined by the user.
- Saves a lot of time in formatting.

How does LATEX work?

\end{document}

%	Preamble
\documentclass{article}	
\usepackage{adjustbox} required by iebaltab \usepackage{setspace}	% This package allows us to import files. % This package allows you to adapt table and figure sizes to fit the page and is % Making table of contents/figures/tables clickable, so you get to exactly that
\usepackage{float}	% This package allows us
%	Preamble ends here
\begin{document}	

Here comes whatever you want the content of your document to be



Our LaTeX template allows you to display your results by just editing the path to your file.

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- Template 1 shows how to import tables.
- ► Template 2 shows how to import figures.
- ► Template 3 displays some more advanced options and features of LaTeX.

/0	kl.equidite
\documentclass{article}	
<pre>% Load the packages you're going to use \usepackage{amport} \usepackage{adjustbox} required by iebaltab \usepackage{setspace}</pre>	e % This package allows us to import files. % This package allows you to adapt table and figure sizes to fit the page and is
\usepackage{hyperref}	$\ensuremath{\mathtt{\%}}$ Making table of contents/figures/tables clickable, so you get to exactly that
<pre>section. \usepackage{float} \usepackage{graphicx} \usepackage{subcaption}</pre>	% This package allows us
<pre>% Formatting packages %\doublespacing \usepackage{indentfirst} \usepackage{parskip} \setlength{\parskip}{.5\baselineskip}</pre>	% Uncomment to use double spacing % Indents the fist paragraph of each section % This packages sets the spacing between two paragraphs % Define spacing between two paragraphs
<pre>% ADD YOUR PROJECT INFO HERE \title{Project ABC \\ Subtitle XYZ} \author{Your Name} \date{\today}</pre>	%Double backslash starts a new line in \LaTeX
%	% Uncomment this to not print date or insert specific date
%	Preamble end here



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Defines what kind of document to create.
Example - article, report, book, slides, etc.



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- \usepackage{package_name} You need to load the packages you want to use in the beginning of every file, otherwise it will not compile once you use the package.
- \title{document_title}
 The document title is defined in the preamble and later printed, as well as authors and date



Headers

% ------Preamble ends here ------

\begin{document}

\maketitle \tableofcontents

\newpage \listoffigures \listoftables

maketitle Print the document's title, authors and date in the first page.

tableofcontents Prints a summary with all the sections and subsections.

newpage Insert a page break.

listoffigures Prints a list of all the figures in the document.

listoftables Prints a list of all the tables in the document.

Project ABC Subtitle XYZ

Your Name

May 9, 2017

Contents

2 Balance tests: lebaltab
3 Sample sizes
4 Descriptive statistics

5 Regression tables
6 Manual table
7 Importing figures



Creating Sections

```
\begin(document)
\maketitle
\tableofcontents
\newpage
\tableofcontents
\newpage
\tableofcontents
\newpage
\tableofcontents
\tableofconten
```

- 1 This is the first section
- 1.1 This is the first subsection of the first section
- 1.1.1 This is the first subsubsection of the first subsection of the first section



Writing in your document

\section{Information on what you're doing}

If you need to write something related to the project, write it here before the tables start. Otherwise you can just delete this section and just start with the tables.

\textbf{This is a bold text.} \newline \textit{This is an italicised text.} \\
\underline{This is an underlined text.}

%\newline starts a new line. \\ does the same.

Just pressing Enter/Return key and starting in a new line works too.

%This is a comment. I can write anything here and nobody will be able to see it except me.

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This is a bold text.

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\begin{figure}[H]
  \centering
  \includegraphics[width=\textwidth]{Raw/iegraph.png}
  \caption{Regular image: iegraph}
  \label{fig:my_label}
\end{figure}
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Each figure starts with \begin{figure} and \end{figure}



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- If \caption comes before the table itself, the title is above it. If it comes after, the title is printed below the table.



Fragmented documents

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Treatment	&	33	&	21	&	7	&	5	\\		
Total	&	68	&	44	&	14	&	10	\\		
Nline\nline \ \((tabular) \)											

- ► The tables we export from Stata are actually fragmented documents
- ► These are .tex files with no \begin{document} or \end{document}, so they will not compile on their own
- ► We could simply copy and paste this document into our main LATEX file, but then they would not be automatically updated





If you want to learn more

https://en.wikibooks.org/wiki/LaTeX

